

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/623305	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:04
S2	894	angular adj2 multiplex\$4 multiplex\$4 near3 hologra\$5	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:46
S3	228	S2 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:32
S4	174	S3 and (first second third) near5 (beam wavelength light source)	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:33
S5	48	S3 and (third) near5 (beam wavelength light source)	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:45
S6	1	"5793504".pn.	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:45
S7	894	angular adj2 multiplex\$4 multiplex\$4 near3 hologra\$5	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:46
S8	66	S7 same substrate	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:47
S9	228	S7 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:47
S10	48	S9 and (third) near5 (beam wavelength light source)	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:47
S11	4	S8 and S10	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:48
S12	3035	hologra\$5 near8 (substrate package integral\$4)	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:49
S13	249	S12 and (third) adj2 (beam wavelength light source)	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:49
S14	85	S13 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:54
S15	866	(third) near3 (hologra\$5)	US-PGPUB; USPAT	OR	OFF	2006/05/09 13:54
S16	15	S15 near10 (integral\$4 packag\$4 module)	US-PGPUB; USPAT	OR	OFF	2006/05/09 14:07
S17	887	multiplex\$4 near4 hologra\$5	US-PGPUB; USPAT	OR	OFF	2006/05/09 14:07
S18	623	multiplex\$4 adj2 hologra\$5	US-PGPUB; USPAT	OR	OFF	2006/05/09 14:07
S19	3	S18 same (third adj2 hologra\$5)	US-PGPUB; USPAT	OR	OFF	2006/05/09 14:53
S20	0	hologra%5 near5 (grating element)	US-PGPUB; USPAT	OR	OFF	2006/05/09 14:53
S21	8611	hologra\$5 near5 (grating element)	US-PGPUB; USPAT	OR	OFF	2006/05/09 14:54

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S22	754	S21 near10 layer\$3	US-PGPUB; USPAT	OR	OFF	2006/05/09 15:20
S23	7692	hologra\$5 near3 (element grating)	US-PGPUB; USPAT	OR	OFF	2006/05/09 15:21
S24	625	S23 near8 (layer\$3)	US-PGPUB; USPAT	OR	OFF	2006/05/09 15:28
S25	106	S24 and (third) near3 (light source wavelength)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:31
S26	37	S25 and (third) near5 (hologra\$5)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:36
S27	570	(third) near2 (hologra\$5)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:36
S28	9	S27 near15 (package module integral\$4)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:39
S29	887	multiplex\$4 near4 hologra\$5	US-PGPUB; USPAT	OR	ON	2006/05/09 15:39
S30	0	S29 same (photodetector and (diffraction adj2 grating))	US-PGPUB; USPAT	OR	ON	2006/05/09 15:40
S31	80	S29 and (photodetector and (diffraction adj2 grating))	US-PGPUB; USPAT	OR	ON	2006/05/09 15:40
S32	34	S31 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	ON	2006/05/09 15:45
S33	434	third adj2 hologra\$4	US-PGPUB; USPAT	OR	ON	2006/05/09 15:47
S34	31	S33 near8 (substrate integral package)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:47
S35	3055	hologra\$4 near8 (substrate integral package)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:47
S36	65	hologra\$4 near8 single adj2 (substrate integral package)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:54
S37	18	S36 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	ON	2006/05/09 15:47
S38	161	grating near8 single adj2 (substrate integral package)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:54
S39	5	(multi\$4 third) adj2 grating near8 single adj2 (substrate integral package)	US-PGPUB; USPAT	OR	ON	2006/05/09 15:55
S40	5	(multi\$4 adj2 grating) near8 (single adj2 (substrate integral package))	US-PGPUB; USPAT	OR	ON	2006/05/09 15:56
S41	14	(multi\$4 adj2 grating) same (single adj2 (substrate integral package))	US-PGPUB; USPAT	OR	ON	2006/05/10 08:26
S42	2561	multiplex\$4 near3 (grating hologra\$5)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:30

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S43	394	S42 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	ON	2006/05/10 08:27
S44	46	S43 and (third) adj2 (light source wavelength)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:29
S45	69	S43 and (third) near3 (light source wavelength)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:27
S46	0	S43 and ((third) adj2 (light source wavelength) near25 (package module))	US-PGPUB; USPAT	OR	ON	2006/05/10 08:30
S47	0	S43 and ((third) adj2 (light source wavelength) same (package module))	US-PGPUB; USPAT	OR	ON	2006/05/10 08:30
S48	45	(multiplex\$4 near3 (grating hologra\$5)) near25 (package module)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:31
S49	5	S48 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	ON	2006/05/10 08:37
S50	12106	(hologra\$5 grating) near5 (substrate layer)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:40
S51	1662	S50 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	ON	2006/05/10 08:39
S52	871	S51 and (first second third) near3 (hologra\$5 grating)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:39
S53	2128	(hologra\$5 grating) near5 (single one) near3(substrate layer)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:41
S54	266	S51 and S53	US-PGPUB; USPAT	OR	ON	2006/05/10 08:41
S55	164	S54 and (first second third) near2 (hologra\$5 grating)	US-PGPUB; USPAT	OR	ON	2006/05/10 08:41
S56	1	"6868055".pn.	USPAT	OR	OFF	2006/05/10 08:47
S57	549	(third) adj2 (optical adj2 (dis\$1 medium))	USPAT	OR	OFF	2006/05/10 08:51
S58	5	S57 and (third adj2 (hologra\$5 grating))	USPAT	OR	OFF	2006/05/10 08:52
S59	1058	(third) adj2 (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/10 09:02
S60	7	S59 and (third adj2 (hologra\$5 grating))	US-PGPUB; USPAT	OR	OFF	2006/05/10 08:52
S61	166	S59 and (hologra\$5 grating)	US-PGPUB; USPAT	OR	OFF	2006/05/10 08:53
S62	74	S59 and (hologra\$5 grating)	USPAT	OR	OFF	2006/05/10 08:57
S63	92	S59 and (hologra\$5 grating)	US-PGPUB	OR	OFF	2006/05/10 08:57

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S64	7	(third) adj2 (optical adj2 (dis\$1 medium)) near15 (hologra\$5 grating)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:13
S65	1058	(third) adj2 (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:15
S66	81	S65 and (hd-dvd hd adj2 dvd blu adj2 ray blu-ray)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S67	38	S66 and (grating hologra\$5)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:14
S68	27985	(third) adj2 (light source wavelength)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S69	93207	(third) near5 (light source wavelength)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S70	225	S69 and (hd-dvd hd adj2 dvd blu adj2 ray blu-ray)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S71	109	S70 and (grating hologra\$5)	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S72	442111	(photodetector detector light adj2 recieving)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:04
S73	1040	S72 near15 (moveable)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:05
S74	34827	S72 near15 (move\$6)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:07
S75	27342	S72 near8 (move\$6)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:06
S76	1762	S75 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:06
S77	1	S76 and 369/4	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:06
S78	898	S76 and "369"/\$	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:06
S79	45434	S72 near15 (mov\$7)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:07
S80	157	S79 near20 (tolerance optimiz\$4)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:07
S81	162	S79 near20 (tolerance optimiz\$6)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:07
S82	37	S81 and (optical adj2 (dis\$1 medium))	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:09
S83	2651	photodetector near7 mov\$7	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:10
S84	35	S83 same (tolerance optimiz\$6)	US-PGPUB; USPAT	OR	OFF	2006/05/10 14:17
S85	692	photodetector near5 mov\$7	EPO; JPO	OR	OFF	2006/05/10 14:17

## EAST Search History

S86	51	S85 and (optical adj2 (dis\$1 medium))	EPO; JPO	OR	OFF	2006/05/10 15:33
S87	19	photodetector near6 outside near5 (module package)	US-PGPUB; USPAT	OR	OFF	2006/05/10 15:42
S88	23	photodetector near10 outside near5 (module package)	US-PGPUB; USPAT	OR	OFF	2006/05/10 15:42
S89	4	S88 not S87	US-PGPUB; USPAT	OR	OFF	2006/05/11 07:55
S90	402	photodetector near3 outside	US-PGPUB; USPAT	OR	OFF	2006/05/11 07:56
S91	639	photodetector near3 (outside independent)	US-PGPUB; USPAT	OR	OFF	2006/05/11 07:56
S92	92	S91 and "369"/\$	US-PGPUB; USPAT	OR	OFF	2006/05/11 07:56